PAGE: 1

1645

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/297,981

DATE: 05/19/2000
TIME: 18:57:52

Input Set: I297981.RAW

R. Zeman

This Raw Listing contains the General Information Section and up to first 5 pages.

ENTERED

```
 1    <110> APPLICANT: MEHENS, LYDIE
 2          LUHRMANN, REINHARD GEORGE
 3          UNION, ANN
 4          RAYMACKERS, JOSEPH
 5    <120> TITLE OF INVENTION: METHYLATED, SMD HOMOLOGOUS PEPTIDES, REACTIVE WITH THE
 6          ANTIBODIES FROM SERA OF LIVING BEINGS AFFECTED WITH
 7.         SYSTEMIC LUPUS ERYTHEMATOSUS
 8    <130> FILE REFERENCE: INNS011---
 9    <140> CURRENT APPLICATION NUMBER: US/09/297,981
10    <141> CURRENT FILING DATE: 1999-05-10
11    <160> NUMBER OF SEQ ID NOS: 30
12    <170> SOFTWARE: PatentIn Ver. 2.1
13    <210> SEQ ID NO 1
14    <211> LENGTH: 19
15    <212> TYPE: PRT
16    <213> ORGANISM: Artificial Sequence
17    <220> FEATURE:
18    <221> NAME/KEY: PEPTIDE
19    <222> LOCATION: (2)..(18)
20    <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
21    <220> FEATURE:
22    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
23    <400> SEQUENCE: 1
24          Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa
25           1               5                   10                  15
26          Gly Xaa Gly
27    <210> SEQ ID NO 2
28    <211> LENGTH: 11
29    <212> TYPE: PRT
30    <213> ORGANISM: Artificial Sequence
31    <220> FEATURE:
32    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
33    <220> FEATURE:
34    <221> NAME/KEY: PEPTIDE
35    <222> LOCATION: (2)..(10)
36    <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
37    <400> SEQUENCE: 2
38          Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly
39           1               5                   10
40    <210> SEQ ID NO 3
41    <211> LENGTH: 17
42    <212> TYPE: PRT
43    <213> ORGANISM: Artificial Sequence
44    <220> FEATURE:
```

```
45    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
46    <220> FEATURE:
47    <221> NAME/KEY: PEPTIDE
48    <222> LOCATION: (7)..(15)
49    <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
50    <400> SEQUENCE: 3
51         Lys Ala Gln Val Ala Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa Gly
52         1               5                   10                  15
53         Asn
54    <210> SEQ ID NO 4
55    <211> LENGTH: 38
56    <212> TYPE: PRT
57    <213> ORGANISM: Artificial Sequence
58    <220> FEATURE:
59    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
60    <220> FEATURE:
61    <221> NAME/KEY: PEPTIDE
62    <222> LOCATION: (17)..(33)
63    <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
64    <400> SEQUENCE: 4
65         Asp Val Glu Pro Lys Val Lys Ser Lys Lys Arg Glu Ala Val Ala Gly
66         1               5                   10                  15
67         Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly
68                         20                  25                  30
69         Xaa Gly Gly Pro Arg Arg
70                         35
71    <210> SEQ ID NO 5
72    <211> LENGTH: 16
73    <212> TYPE: PRT
74    <213> ORGANISM: Artificial Sequence
75    <220> FEATURE:
76    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
77    <220> FEATURE:
78    <221> NAME/KEY: PEPTIDE
79    <222> LOCATION: (5)..(13)
80    <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
81    <400> SEQUENCE: 5
82         Asp Asn His Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Gly Gly
83         1               5                   10                  15
84    <210> SEQ ID NO 6
85    <211> LENGTH: 15
86    <212> TYPE: PRT
87    <213> ORGANISM: Artificial Sequence
88    <220> FEATURE:
89    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
90    <220> FEATURE:
91    <221> NAME/KEY: PEPTIDE
92    <222> LOCATION: (3)..(13)
93    <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
94    <400> SEQUENCE: 6
```

```
W-->    95        Gly Gly Xaa Gly Xaa Gly Gly Ser Gly Gly Xaa Gly Xaa Gly Gly
        96           1               5                10               15
        97   <210> SEQ ID NO 7
        98   <211> LENGTH: 12
        99   <212> TYPE: PRT
       100   <213> ORGANISM: Artificial Sequence
       101   <220> FEATURE:
       102   <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       103   <220> FEATURE:
       104   <221> NAME/KEY: PEPTIDE
       105   <222> LOCATION: (4)..(10)
       106   <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
       107   <400> SEQUENCE: 7
W--    108        Glu Arg Ala Xaa Gly Xaa Gly Xaa Gly Xaa Gly Glu
       109           1               5                10
       110   <210> SEQ ID NO 8
       111   <211> LENGTH: 46
       112   <212> TYPE: PRT
       113   <213> ORGANISM: Artificial Sequence
       114   <220> FEATURE:
       115   <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       116   <220> FEATURE:
       117   <221> NAME/KEY: PEPTIDE
       118   <222> LOCATION: (6)..(44)
       119   <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
       120   <400> SEQUENCE: 8
W-->   121        Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly Gly
       122           1               5                10               15
W--    123        Tyr Asn Xaa Ser Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly
       124                         20                25               30
W-->   125        Xaa Gly Gly Xaa Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly
       126                         35                40               45
       127   <210> SEQ ID NO 9
       128   <211> LENGTH: 18
       129   <212> TYPE: PRT
       130   <213> ORGANISM: Artificial Sequence
       131   <220> FEATURE:
       132   <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       133   <220> FEATURE:
       134   <221> NAME/KEY: PEPTIDE
       135   <222> LOCATION: (6)..(11)
       136   <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
       137   <400> SEQUENCE: 9
W--    138        Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly Xaa Gly Gly Gly Gly Gly
       139           1               5                10               15
       140        Tyr Asn
       141   <210> SEQ ID NO 10
       142   <211> LENGTH: 26
       143   <212> TYPE: PRT
       144   <213> ORGANISM: Artificial Sequence
```

```
145   <220> FEATURE:
146   <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
147   <220> FEATURE:
148   <221> NAME/KEY: PEPTIDE
149   <222> LOCATION: (7)..(24)
150   <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
151   <400> SEQUENCE: 10
152       Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly Gly Gly Xaa Gly Gly Xaa
153        1           5              10                  15
154       Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly
155                      20              25
156   <210> SEQ ID NO 11
157   <211> LENGTH: 17
158   <212> TYPE: PRT
159   <213> ORGANISM: Artificial Sequence
160   <220> FEATURE:
161   <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
162   <220> FEATURE:
163   <221> NAME/KEY: PEPTIDE
164   <222> LOCATION: (4)..(15)
165   <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
166   <400> SEQUENCE: 11
167       Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly
168        1           5              10                  15
169       Gly
170   <210> SEQ ID NO 12
171   <211> LENGTH: 29
172   <212> TYPE: PRT
173   <213> ORGANISM: Artificial Sequence
174   <220> FEATURE:
175   <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
176   <220> FEATURE:
177   <221> NAME/KEY: PEPTIDE
178   <222> LOCATION: (4)..(21)
179   <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
180   <400> SEQUENCE: 12
181       Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa Gly Gly Xaa Gly Xaa Gly
182        1           5              10                  15
183       Gly Pro Met Gly Xaa Gly Gly Tyr Gly Gly Gly Gly Ser
184                      20              25
185   <210> SEQ ID NO 13
186   <211> LENGTH: 38
187   <212> TYPE: PRT
188   <213> ORGANISM: Artificial Sequence
189   <220> FEATURE:
190   <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
191   <220> FEATURE:
192   <221> NAME/KEY: PEPTIDE
193   <222> LOCATION: (4)..(34)
194   <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
```

```
       195    <400> SEQUENCE: 13
W-->   196          Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly Tyr Xaa
       197          1             5                   10              15
W-->   198          Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly Xaa Gly Gly Gly
       199                        20                  25              30
W-->   200          Asp Xaa Gly Gly Phe Gly
       201                        35
       202    <210> SEQ ID NO 14
       203    <211> LENGTH: 14
       204    <212> TYPE: PRT
       205    <213> ORGANISM: Artificial Sequence
       206    <220> FEATURE:
       207    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       208    <220> FEATURE:
       209    <221> NAME/KEY: PEPTIDE
       210    <222> LOCATION: (4)..(12)
       211    <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
       212    <400> SEQUENCE: 14
W-->   213          Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr Asp Xaa Gly Gly
       214          1             5                   10
       215    <210> SEQ ID NO 15
       216    <211> LENGTH: 26
       217    <212> TYPE: PRT
       218    <213> ORGANISM: Artificial Sequence
       219    <220> FEATURE:
       220    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       221    <220> FEATURE:
       222    <221> NAME/KEY: PEPTIDE
       223    <222> LOCATION: (4)..(22)
       224    <223> OTHER INFORMATION: "Xaa" STANDS FOR A MONO- OR DIMETHYLATED ARGININE
       225    <400> SEQUENCE: 15
W-->   226          Gly Gly Tyr Xaa Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa Gly Gly
       227          1             5                   10              15
W-->   228          Xaa Gly Gly Gly Asp Xaa Gly Gly Phe Gly
       229                        20                  25
       230    <210> SEQ ID NO 16
       231    <211> LENGTH: 19
       232    <212> TYPE: PRT
       233    <213> ORGANISM: Artificial Sequence
       234    <220> FEATURE:
       235    <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
       236    <400> SEQUENCE: 16
       237          Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg Gly Arg
       238          1             5                   10              15
       239          Gly Arg Gly
       240    <210> SEQ ID NO 17
       241    <211> LENGTH: 38
       242    <212> TYPE: PRT
       243    <213> ORGANISM: Artificial Sequence
       244    <220> FEATURE:
```

Line	?	Error/Warning	Original Text
24	W	"N" or "Xaa" used: Feature required	Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa G
26	W	"N" or "Xaa" used: Feature required	Gly Xaa Gly
38	W	"N" or "Xaa" used: Feature required	Ala Xaa Gly Xaa Gly Xaa Gly Met Gly Xaa G
51	W	"N" or "Xaa" used: Feature required	Lys Ala Gln Val Ala Ala Xaa Gly Xaa Gly X
67	W	"N" or "Xaa" used: Feature required	Xaa Gly Xaa Gly Xaa Gly Xaa Gly Xaa Gly X
69	W	"N" or "Xaa" used: Feature required	Xaa Gly Gly Pro Arg Arg
82	W	"N" or "Xaa" used: Feature required	Asp Asn His Gly Xaa Gly Xaa Gly Xaa Gly X
95	W	"N" or "Xaa" used: Feature required	Gly Gly Xaa Gly Xaa Gly Gly Ser Gly Gly X
108	W	"N" or "Xaa" used: Feature required	Glu Arg Ala Xaa Gly Xaa Gly Xaa Gly Xaa G
121	W	"N" or "Xaa" used: Feature required	Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly X
123	W	"N" or "Xaa" used: Feature required	Tyr Asn Xaa Ser Ser Gly Gly Tyr Glu Pro X
125	W	"N" or "Xaa" used: Feature required	Xaa Gly Gly Xaa Gly Gly Met Gly Gly Ser A
138	W	"N" or "Xaa" used: Feature required	Gly Gly Gln Gln Asp Xaa Gly Gly Xaa Gly X
152	W	"N" or "Xaa" used: Feature required	Ser Gly Gly Tyr Glu Pro Xaa Gly Xaa Gly G
154	W	"N" or "Xaa" used: Feature required	Gly Gly Met Gly Gly Ser Asp Xaa Gly Gly
167	W	"N" or "Xaa" used: Feature required	Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa G
181	W	"N" or "Xaa" used: Feature required	Asp Phe Asn Xaa Gly Gly Gly Asn Gly Xaa G
183	W	"N" or "Xaa" used: Feature required	Gly Pro Met Gly Xaa Gly Gly Tyr Gly Gly G
196	W	"N" or "Xaa" used: Feature required	Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr A
198	W	"N" or "Xaa" used: Feature required	Gly Xaa Gly Gly Asp Xaa Gly Gly Phe Xaa G
200	W	"N" or "Xaa" used: Feature required	Asp Xaa Gly Gly Phe Gly
213	W	"N" or "Xaa" used: Feature required	Gly Asp Asp Xaa Xaa Gly Xaa Gly Gly Tyr A
226	W	"N" or "Xaa" used: Feature required	Gly Gly Tyr Xaa Gly Xaa Gly Gly Asp Xaa G
228	W	"N" or "Xaa" used: Feature required	Xaa Gly Gly Gly Asp Xaa Gly Gly Phe Gly